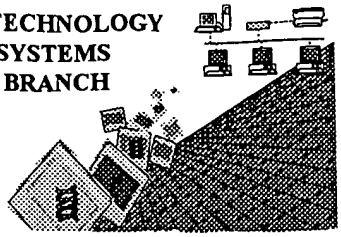
#15/53
2-27-02

1652

BIOTECHNOLOGY SYSTEMS BRANCH



RAW SEQUENCE LISTING ERROR REPORT

The Biotechnology Systems Branch of the Scientific and Technical Information Center (STIC) detected errors when processing the following computer readable form:

Application Serial Number: 09/534,229B
Source: 1652
Date Processed by STIC: 2/13/2002

THE ATTACHED PRINTOUT EXPLAINS DETECTED ERRORS.
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1) **INCLUDING A COPY OF THIS PRINTOUT IN YOUR NEXT COMMUNICATION TO THE APPLICANT, WITH A NOTICE TO COMPLY or,**
2) **TELEPHONING APPLICANT AND FAXING A COPY OF THIS PRINTOUT, WITH A NOTICE TO COMPLY**

FOR CRF SUBMISSION QUESTIONS, PLEASE CONTACT MARK SPENCER, 703-308-4212.

FOR SEQUENCE RULES INTERPRETATION, PLEASE CONTACT ROBERT WAX, 703-308-4216.
PATENTIN 2.1 e-mail help: patin21help@uspto.gov or phone 703-306-4119 (R. Wax)
PATENTIN 3.0 e-mail help: patin3help@uspto.gov or phone 703-306-4119 (R. Wax)

TO **REDUCE** ERRORED SEQUENCE LISTINGS, **PLEASE** USE THE **CHECKER VERSION 3.1 PROGRAM**, ACCESSIBLE THROUGH THE U.S. PATENT AND TRADEMARK OFFICE WEBSITE. SEE BELOW FOR ADDRESS:
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Applicants submitting genetic sequence information electronically on diskette or CD-Rom should be aware that there is a possibility that the disk/CD-Rom may have been affected by treatment given to all incoming mail.
Please consider using alternate methods of submission for the disk/CD-Rom or replacement disk/CD-Rom.
Any reply including a sequence listing in electronic form should NOT be sent to the 20231 zip code address for the United States Patent and Trademark Office, and instead should be sent via the following to the indicated addresses:

1. EFS-Bio (<http://www.uspto.gov/ebc/efs/downloads/documents.htm>, **EFS Submission User Manual** - ePAVE)
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   Or
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Revised 01/29/2002

1652

RAW SEQUENCE LISTING DATE: 02/13/2002
PATENT APPLICATION: US/09/534,229B TIME: 15:39:06

p. 4

Input Set : A:\PTO.VSK.txt
Output Set: N:\CRF3\02132002\I534229B.raw

Does Not Comply
Corrected Diskette Needed

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  5 <110> APPLICANT: Kawakami, Akira
  6       Terami, Fumihiro
  9 <120> TITLE OF INVENTION: LOW TEMPERATURE EXPRESSION CHITINASE cDNAs AND METHOD FOR
ISOLATING THE
 10       SAME
 13 <130> FILE REFERENCE: 107156-00004
 14 <140> CURRENT APPLICATION NUMBER: US 09/534,229B
 16 <141> CURRENT FILING DATE: 2000-03-24
 19 <160> NUMBER OF SEQ ID NOS: 8
 22 <170> SOFTWARE: PatentIn version 3.0
 25 <210> SEQ ID NO: 1
 26 <211> LENGTH: 256
 27 <212> TYPE: PRT
 28 <213> ORGANISM: Triticum aestivum
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 36 Ala Val Ala Ala Gly Gly Ala Ala Ala Gln Gly Val Gly Ser Val Ile
 37             20                  25                  30
 39 Thr Arg Ser Val Tyr Ala Ser Met Leu Pro Asn Arg Asp Asn Ser Leu
 40         35                  40                  45
 42 Cys Pro Ala Arg Gly Phe Tyr Thr Tyr Asp Ala Phe Ile Ala Ala Ala
 43     50                  55                  60
 45 Asn Thr Phe Pro Gly Phe Gly Thr Thr Gly Ser Ala Asp Asp Ile Lys
 46 65                  70                  75                  80
 48 Arg Asp Leu Ala Ala Phe Phe Gly Gln Thr Ser His Glu Thr Thr Gly
 49                 85                  90                  95
 51 Gly Thr Arg Gly Ala Ala Asp Gln Phe Gln Trp Gly Tyr Cys Phe Lys
 52             100                 105                 110
 54 Glu Glu Ile Ser Lys Ala Thr Ser Pro Pro Tyr Tyr Gly Arg Gly Pro
 55         115                 120                 125
 57 Ile Gln Leu Thr Gly Arg Ser Asn Tyr Asp Leu Ala Gly Arg Ala Ile
 58     130                 135                 140
 60 Gly Lys Asp Leu Val Ser Asn Pro Asp Leu Val Ser Thr Asp Ala Val
 61 145                 150                 155                 160
 63 Val Ser Phe Arg Thr Ala Met Trp Phe Trp Met Thr Ala Gln Gly Asn
 64                 165                 170                 175
 66 Lys Pro Ser Cys His Asn Val Ala Leu Arg Arg Trp Thr Pro Thr Ala
 67             180                 185                 190
 69 Ala Asp Thr Ala Ala Gly Arg Val Pro Gly Tyr Gly Val Ile Thr Asn
 70         195                 200                 205
 72 Ile Ile Asn Gly Gly Leu Glu Cys Gly Met Gly Arg Asn Asp Ala Asn
 73     210                 215                 220
 75 Val Asp Arg Ile Gly Tyr Tyr Thr Arg Tyr Cys Gly Met Leu Gly Thr
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RAW SEQUENCE LISTING DATE: 02/13/2002
PATENT APPLICATION: US/09/534,229B TIME: 15:39:06

Input Set : A:\PTO.VSK.txt
Output Set: N:\CRF3\02132002\I534229B.raw

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82 <211> LENGTH: 323
83 <212> TYPE: PRT
84 <213> ORGANISM: Triticum aestivum
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92 Leu Ala Ala Ala Ala Val Thr Pro Ala Thr Ala Glu Gln Cys Gly Ser
93             20                  25                  30
95 Gln Ala Gly Gly Ala Lys Cys Ala Asp Cys Leu Cys Cys Ser Gln Phe
96         35                  40                  45
98 Gly Phe Cys Gly Thr Thr Ser Asp Tyr Cys Gly Pro Arg Cys Gln Ser
99     50                  55                  60
101 Gln Cys Thr Gly Cys Gly Gly Gly Gly Gly Gly Val Ala Ser Ile Val
102 65                  70                  75                  80
104 Ser Arg Asp Leu Phe Glu Arg Phe Leu Leu His Arg Asn Asp Ala Ala
105                 85                  90                  95
107 Cys Leu Ala Arg Gly Phe Tyr Thr Tyr Asp Ala Phe Leu Ala Ala Ala
108             100                 105                 110
110 Gly Ala Phe Pro Ala Phe Gly Thr Thr Gly Asp Leu Asp Thr Arg Lys
111         115                 120                 125
113 Arg Glu Val Ala Ala Phe Phe Gly Gln Thr Ser His Glu Thr Thr Gly
114     130                 135                 140
116 Gly Trp Pro Thr Ala Pro Asp Gly Pro Phe Ser Trp Gly Tyr Cys Phe
117 145                 150                 155                 160
119 Lys Gln Glu Gln Gly Ser Pro Pro Ser Tyr Cys Asp Gln Ser Ala Asp
120                 165                 170                 175
122 Trp Pro Cys Ala Pro Gly Lys Gln Tyr Tyr Gly Arg Gly Pro Ile Gln
123             180                 185                 190
125 Leu Thr His Asn Tyr Asn Tyr Gly Pro Ala Gly Arg Ala Ile Gly Val
126         195                 200                 205
128 Asp Leu Leu Asn Asn Pro Asp Leu Val Ala Thr Asp Pro Thr Val Ala
129     210                 215                 220
131 Phe Lys Thr Ala Ile Trp Phe Trp Met Thr Thr Gln Ser Asn Lys Pro
132 225                 230                 235                 240
134 Ser Cys His Asp Val Ile Thr Gly Leu Trp Thr Pro Thr Ala Arg Asp
135                 245                 250                 255
137 Ser Ala Ala Gly Arg Val Pro Gly Tyr Gly Val Ile Thr Asn Val Ile
138             260                 265                 270
140 Asn Gly Gly Ile Glu Cys Gly Met Gly Gln Asn Asp Lys Val Ala Asp
141         275                 280                 285
143 Arg Ile Gly Phe Tyr Lys Arg Tyr Cys Asp Ile Phe Gly Ile Gly Tyr
144     290                 295                 300
146 Gly Asn Asn Leu Asp Cys Tyr Asn Gln Leu Ser Phe Asn Val Gly Leu
147 305                 310                 315                 320
149 Ala Ala Gln
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RAW SEQUENCE LISTING DATE: 02/13/2002
PATENT APPLICATION: US/09/534,229B TIME: 15:39:06

Input Set : A:\PTO.VSK.txt
Output Set: N:\CRF3\02132002\I534229B.raw

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154 <212> TYPE: PRT
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164             20                  25                  30
166 Pro Asn Cys Leu Cys Cys Ser Lys Phe Gly Phe Cys Gly Thr Thr Ser
167         35                  40                  45
169 Asp Tyr Cys Gly Thr Gly Cys Gln Ser Gln Cys Asn Gly Cys Ser Gly
170     50                  55                  60
172 Gly Thr Pro Val Pro Val Pro Thr Pro Ser Gly Gly Gly Val Ser Ser
173 65                  70                  75                  80
175 Ile Ile Ser Gln Ser Leu Phe Asp Gln Met Leu Leu His Arg Asn Asp
176                 85                  90                  95
178 Ala Ala Cys Leu Ala Lys Gly Phe Tyr Asn Tyr Gly Ala Phe Val Ala
179             100                 105                 110
181 Ala Ala Asn Ser Phe Ser Gly Phe Ala Thr Thr Gly Ser Thr Asp Val
182         115                 120                 125
184 Lys Lys Arg Glu Val Ala Ala Phe Leu Ala Gln Thr Ser His Glu Thr
185     130                 135                 140
187 Thr Gly Gly Trp Pro Thr Ala Pro Asp Gly Pro Tyr Ser Trp Gly Tyr
188 145                 150                 155                 160
190 Cys Phe Asn Gln Glu Arg Gly Ala Thr Ser Asp Tyr Cys Thr Pro Ser
191                 165                 170                 175
193 Ser Gln Trp Pro Cys Ala Pro Gly Lys Lys Tyr Phe Gly Arg Gly Pro
194             180                 185                 190
196 Ile Gln Ile Ser His Asn Tyr Asn Tyr Gly Pro Ala Gly Gln Ala Ile
197         195                 200                 205
199 Gly Thr Asp Leu Leu Asn Asn Pro Asp Leu Val Ala Ser Asp Ala Thr
200     210                 215                 220
202 Val Ser Phe Lys Thr Ala Leu Trp Phe Trp Met Thr Pro Gln Ser Pro
203 225                 230                 235                 240
205 Lys Pro Ser Ser His Asp Val Ile Thr Gly Arg Trp Ser Pro Ser Gly
206                 245                 250                 255
208 Ala Asp Gln Ala Ala Gly Arg Val Pro Gly Tyr Gly Val Ile Thr Asn
209             260                 265                 270
211 Ile Ile Asn Gly Gly Leu Glu Cys Gly Arg Gly Gln Asp Gly Arg Val
212         275                 280                 285
214 Ala Asp Arg Ile Gly Phe Tyr Lys Arg Tyr Cys Asp Leu Leu Gly Val
215     290                 295                 300
217 Ser Tyr Gly Asp Asn Leu Asp Cys Tyr Asn Gln Arg Pro Phe Ala
218 305                 310                 315
220 <210> SEQ ID NO: 4
221 <211> LENGTH: 23
222 <212> TYPE: DNA
C--> 223 <213> ORGANISM: Artificial
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RAW SEQUENCE LISTING DATE: 02/13/2002
PATENT APPLICATION: US/09/534,229B TIME: 15:39:06

Input Set : A:\PTO.VSK.txt
Output Set: N:\CRF3\02132002\I534229B.raw

226 <220> FEATURE:
227 <221> NAME/KEY: misc_feature
228 <222> LOCATION: (1)..(23)
229 <223> OTHER INFORMATION: Artificial primer.
232 <400> SEQUENCE: 4 see → Item 9 on Error Summary Sheet
W--> 233 cacgagacca cnggcggntg ggc 23
236 <210> SEQ ID NO: 5
237 <211> LENGTH: 20
238 <212> TYPE: DNA
Ok-> 239 <213> ORGANISM: Artificial
242 <220> FEATURE:
243 <221> NAME/KEY: misc_feature
244 <222> LOCATION: (1)..(20)
245 <223> OTHER INFORMATION: Artificial primer.
248 <220> FEATURE:
249 <221> NAME/KEY: misc_feature
250 <222> LOCATION: 12, 18 ? "n" is at location 3 only
251 <223> OTHER INFORMATION: n can be one of a,c,t, or g
254 <400> SEQUENCE: 5
W--> 255 acnaatatca tcaacggcgg 20
258 <210> SEQ ID NO: 6
259 <211> LENGTH: 771
260 <212> TYPE: DNA
261 <213> ORGANISM: Triticum aestivum
264 <220> FEATURE:
265 <221> NAME/KEY: misc_feature
266 <222> LOCATION: (1)..(771)
267 <223> OTHER INFORMATION: cDNA
270 <220> FEATURE:
271 <221> NAME/KEY: misc_feature "9" is at location 3
272 <222> LOCATION: 3 ?
273 <223> OTHER INFORMATION: n can be one of a,c,t, or g no n's in this sequence
276 <400> SEQUENCE: 6
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279 gggggtgccg cggcgcaggg cgtgggctcg gtcatcacgc ggtcggtgta cgcgagcact 120
281 ctgcccaacc gcgacaactc gctgtgcccg gccagagggt tctacacgta cgacgccttc 180
283 atcgccgccg ccaacacctt cccgggcttc ggcaccaccg gcagcgccga cgacatcaag 240
285 cgcgacctcg ccgccttctt cggccagacc tcccacgaga ccaccggagg gacgagaggc 300
287 gctgccgacc agttccagtg gggctactgc ttcaaggaag agataagcaa ggccacgtcc 360
289 ccaccatact atggacgggg acccatccaa ttgacagggc ggtccaacta cgatcttgcc 420
291 gggagagcga tcgggaagga cctggtgagc aacccagacc tagtgtccac ggacgcggtg 480
293 gtgtccttca ggacggccat gtggttctgg atgacggcgc agggaaacaa gccgtcgtgc 540
295 cacaacgtcg ccctacgccg ctggacgccg acggccgccg acaccgctgc cggcagggta 600
297 cccggatacg gagtgatcac caatatcatc aacggcgggc tcgagtgcgg aatgggccgg 660
299 aacgacgcca acgtcgaccg catcggctac tacacgcgct actgcggcat gctcggcacg 720
301 gccaccggag gcaacctcga ctgctacacc cagaggaact tcgctagcta g 771
304 <210> SEQ ID NO: 7
305 <211> LENGTH: 972
306 <212> TYPE: DNA

RAW SEQUENCE LISTING DATE: 02/13/2002
PATENT APPLICATION: US/09/534,229B TIME: 15:39:06

Input Set : A:\PTO.VSK.txt
Output Set: N:\CRF3\02132002\I534229B.raw

307 <213> ORGANISM: Triticum aestivum
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311 <221> NAME/KEY: misc_feature
312 <222> LOCATION: (1)..(972)
313 <223> OTHER INFORMATION: cDNA
316 <400> SEQUENCE: 7
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321 gactgcctgt gctgcagcca gttcgggttc tgcggcacca cctccgacta ctgcggcccc 180
323 cgctgccaga gccagtgcac tggctgcggt ggcggcggcg gcggggtggc ctccatcgtg 240
325 tccagggacc tcttcgagcg gttcctgctc catcgcaacg acgcagcgtg cctggcccgc 300
327 gggttctaca cgtacgacgc cttcttggcc gccgccggcg cgttcccggc cttcggcacc 360
329 accggagacc tggacacgcg gaagcgggag gtggcggcct tcttcggcca gacctctcac 420
331 gagaccaccg gcgggtggcc caccgcgccc gacggccccc tctcatgggg ctactgcttc 480
333 aagcaggagc agggctcgcc gccgagctac tgcgaccaga gcgccgactg gccgtgcgca 540
335 cccggcaagc agtactatgg ccgcggcccc atccagctca cccacaacta caactacgga 600
337 ccggcgggcc gcgcaatcgg ggtggacctg ctgaacaatc cggacctggt ggccacggac 660
339 ccgacagtgg cgttcaagac ggcgatatgg ttctggatga cgacgcagtc caacaagccg 720
341 tcgtgccatg acgtgatcac ggggctgtgg actccgacgg ccagggatag cgcagccgga 780
343 cgggtacccg ggtatggtgt catcaccaac gtcatcaacg gcgggatcca atgcggcatg 840
345 gggcagaacg acaaggtggc ggatcggatc gggttctaca agcgctattg tgacattttc 900
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355 <213> ORGANISM: Triticum aestivum
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360 <221> NAME/KEY: misc_feature
361 <222> LOCATION: (1)..(960)
362 <223> OTHER INFORMATION: cDNA
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370 ttcggtttct gcggcaccac ctccgactac tgcggcaccg gctgccagag ccagtgcaat 180
372 ggctgcagcg gcggcacccc ggtaccggta ccgacccccc ccggcggcgg cgtctcctcc 240
374 attatctcgc agtcgctctt cgaccagatg ctgctgcacc gcaacgacgc ggcgtgcctg 300
376 gccaaggggt tctacaacta cggcgccttc gtcgccgccg ccaactcgtt ctcgggcttc 360
378 gcgaccacag gtagcaccga cgtcaagaag cgcgaggtgg ccgcgttcct cgctcagact 420
380 tcccacgaga cgaccggcgg gtggccgacg gcgcccgacg gcccctactc ctggggctac 480
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392 gcggggaggg tgcctgggta cggtgtgatc accaacatca tcaacggtgg gctcgagtgc 840
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VERIFICATION SUMMARY DATE: 02/13/2002
PATENT APPLICATION: US/09/534,229B TIME: 15:39:07

Input Set : A:\PTO.VSK.txt
Output Set: N:\CRF3\02132002\I534229B.raw

L:14 M:283 W: Missing Blank Line separator, <140> field identifier
L:223 M:220 C: Keyword misspelled or invalid format, <213> ORGANISM for SEQ ID#:4
L:233 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:4
L:239 M:220 C: Keyword misspelled or invalid format, <213> ORGANISM for SEQ ID#:5
L:255 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:5

Raw Sequence Listing Error Summary

ERROR DETECTED	SUGGESTED CORRECTION	SERIAL NUMBER: 09/534 229A

ATTN: NEW RULES CASES: PLEASE DISREGARD ENGLISH "ALPHA" HEADERS, WHICH WERE INSERTED BY P

1____Wrapped Nucleics Wrapped Aminos	The number/text at the end of each line "wrapped" down to the next line. This may occur if your file was retrieved in a word processor after creating it. Please adjust your right margin to 3; this will prevent "wrapping."
2____Invalid Line Length	The rules require that a line not exceed 72 characters in length. This includes white spaces.
3____Misaligned Amino Numbering	The numbering under each 5th amino acid is misaligned. Do not use tab codes between numbers; use space characters, instead.
4____Non-ASCII	The submitted file was not saved in ASCII(DOS) text, as required by the Sequence Rules. Please ensure your subsequent submission is saved in ASCII text.
5____Variable Length.	Sequence(s)____contain n's or Xaa's representing more than one residue. Per Sequence Rules, each n or Xaa can only represent a single residue. Please present the maximum number of each residue having variable length and indicate in the <220>-<223> section that some may be missing.
6____PatentIn 2.0 "bug"	A "bug" in PatentIn version 2.0 has caused the <220>-<223> section to be missing from amino acid sequences(s) _____. Normally, PatentIn would automatically generate this section from the previously coded nucleic acid sequence. Please manually copy the relevant <220>-<223> section to the subsequent amino acid sequence. This applies to the mandatory <220>-<223> sections for Artificial or Unknown sequences.
7____Skipped Sequences (OLD RULES)	Sequence(s) ____ missing. If intentional, please insert the following lines for each skipped sequence (2) INFORMATION FOR SEQ ID NO:X: (insert SEQ ID NO where "X" is shown) (i) SEQUENCE CHARACTERISTICS: (Do not insert any subheadings under this heading) (xi) SEQUENCE DESCRIPTION:SEQ ID NO:X: (insert SEQ ID NO where "X" is shown) This sequence is intentionally skipped Please also adjust the "(ii) NUMBER OF SEQUENCES:" response to include the skipped sequences.
8____Skipped Sequences (NEW RULES)	Sequence(s) _____ missing. If intentional, please insert the following lines for each skipped sequen <210> sequence id number <400> sequence id number 000
9____Use of n's or Xaa's (NEW RULES)	Use of n's and/or Xaa's have been detected in the Sequence Listing. Per 1.823 of Sequence Rules, use of <220>-<223> is MANDATORY if n's or Xaa's are present. In <220> to <223> section, please explain location of n or Xaa, and which residue n or Xaa represents
10____Invalid <213> Response	Per 1.823 of Sequence Rules, the only valid <213> responses are: Unknown, Artificial Sequence, or scientific name (Genus/species). <220>-<223> section is required when <213> response is Unknown is Artificial Sequence
11____Use of <220>	Sequence(s) _____ missing the <220> "Feature" and associated numeric identifiers and responses. Use of <220> to <223> is MANDATORY if <213> "Organism" response is "Artificial Sequence" or "Unknown." Please explain source of genetic material in <220> to <223> section. (See "Federal Register," 06/01/1998, Vol. 63, No. 104, pp. 29631-32) (Sec. 1.823 of Sequence Rules)
12____PatentIn 2.0 "bug"	Please do not use "Copy to Disk" function of PatentIn version 2.0. This causes a corrupted file, resulting in missing mandatory numeric identifiers and responses (as indicated on raw sequence listing). Instead, please use "File Manager" or any other manual means to copy file to floppy disk.
13____Misuse of n	'n' can only be used to represent a single nucleotide in a nucleic acid sequence. N is not used to represe any value not specifically a nucleotide.